TCEQ IDA - Production

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AIR DERC_100226539-407776_ USE_20130305_Use_D2913

			\checkmark	
PROJECT#: 407776	STATUS: P	DISP CODE:	•	
RECEIVED: 01/29/2013	PROJTYPE: BUSE	ISSUED DT:	 }	
		SUP-DISP DATE:	15/13	
STAFF ASSIGNED TO PF MUSA, JOSEPH	ROJECT:			
PROJECT NOTES: USE PERIOD 1/1/2012 - 1 GROUPWISE DOCUMEN		20357; DCCT (D-2981) 2035	i9.	
PROJECT TRANSACTIO	NS			
COMPANY DATA				
COMPANY NAME: SAN M		ERATIVE INC		
CUSTOMER REGISTRY I	D: CN600132278			
PORTFOLIO DATA				
NUMBER: P1625 NAME: \$	SAN MIGUEL ELECTRIC -	- RN100226539		
ACCOUNT: AG0007G REG ENTITY ID: RN10022	06520			
SITE NAME: SAN MIGUEL				
COUNTY: ATASCOSA				
LOCATION: 6200 FM 3387	7	NEAREST CI	TY: CHRISTINE	
CONTACT DATA			D 2	913
NAME: LANE A WILLIAMS	3	TITLE: PLANT ENGINE	ER	
STREET: PO BOX 280 CI	TY/STATE.ZIP: JOURDAN	ITON, TX , 78026-0		
PHONE: 830-784-3411 ext	264			
FAX: 830-784-3250 ext 0				
Email: lwilliams@smeci.ne	t			
TRANSACTION DATA				
TRANSACTION TYPE: DE	RC_USE			
DATE ENTERED: 2013-02	-14 00:00:00.0	DELETED DATE:	EFFECTIVE YEAR:	
DATE ENTERED. 2013-02		TONO 448 48		
CONTAMINATE: NOX		TONS: 140.10	DOLLARS: 0	

CUSTOMER REGISTRY ID: CN600132278 PORTFOLIO DATA NUMBER: P1625 NAME: SAN MIGUEL ELECTRIC - RN100226539 SITE DATA

REG ENTITY ID: RN100226539

COUNTY: ATASCOSA LOCATION: 6200 FM 3387

\$

SITE NAME: SAN MIGUEL ELECTRIC PLANT

ACCOUNT: AG0007G REG ENTITY ID: RN100226539 SITE NAME: SAN MIGUEL ELECTRIC PLANT COUNTY: ATASCOSA LOCATION: 6200 FM 3387	NEAREST (CITY: CHRISTINE
CONTACT DATA TRANSACTION DATA		
TRANSACTION TYPE: DERC_RET		
DATE ENTERED: 2013-03-04 00:00:00.0	DELETED DATE: TONS: 209.40	EFFECTIVE YEAR: DOLLARS: 0
CONTAMINATE: NOX ALLOWANCE		DOLLARS. U D2913 COUNTY : ATASCOSA
TRANSACTION DATA		
TRANSACTION TYPE: DERC_USE		
DATE ENTERED: 2013-03-04 00:00:00.0		EFFECTIVE YEAR:
CONTAMINATE: NOX ALLOWANCE0	TONS: 0	DOLLARS: 0) COUNTY : ATASCOSA
COMPANY NAME: SAN MIGUEL ELECTRIC COC CUSTOMER REGISTRY ID: CN600132278 PORTFOLIO DATA NUMBER: P1625 NAME: SAN MIGUEL ELECTRIC SITE DATA ACCOUNT: AG0007G REG ENTITY ID: RN100226539 SITE NAME: SAN MIGUEL ELECTRIC PLANT COUNTY: ATASCOSA LOCATION: 6200 FM 3387	C - RN100226539	CITY: CHRISTINE
TRANSACTION TYPE: DERC_USE		
DATE ENTERED: 2013-03-04 00:00:00.0	DELETED DATE:	EFFECTIVE YEAR:
CONTAMINATE: NOX	TONS: 30.40	DOLLARS: 0
ALLOWANCE0	CERTIFICATE NO.:	D2979 COUNTY : ATASCOSA
COMPANY DATA COMPANY NAME: SAN MIGUEL ELECTRIC COC CUSTOMER REGISTRY ID: CN600132278 PORTFOLIO DATA NUMBER: P1625 NAME: SAN MIGUEL ELECTRI SITE DATA ACCOUNT: AG0007G		

http://ida.tceq.texas.gov/ida/index.cfm?fuseaction=bkproject.project_reporceproj_num_id=... 3/7/2013

NEAREST CITY: CHRISTINE

4



CONTACT DATA TRANSACTION DATA TRANSACTION TYPE: DERC_RET DATE ENTERED: 2013-03-04 00:00:00.0 EFFECTIVE YEAR: DELETED DATE: CONTAMINATE: NOX TONS: 52.70 DOLLARS: 0 ALLOWANCE CERTIFICATE NO .: D2981 COUNTY : ATASCOSA TRANSACTION DATA TRANSACTION TYPE: DERC_USE DATE ENTERED: 2013-03-04 00:00:00.0 DELETED DATE: **EFFECTIVE YEAR:** CONTAMINATE: NOX TONS: 97.70 DOLLARS: 0 ALLOWANCE0 CERTIFICATE NO .: D2980 COUNTY : ATASCOSA

TRACKING ACTIVITES

PM RECEIVED DATE :

02/15/2013 LETTER ISSUED :

Project No.:	407776	Customer Reference No.:	CN600132278
Project Type:	BUSE	Regulated Entity Reference No.:	RN100226539
Company:	San Miguel Electric Cooperative, Inc.	Facility Name:	San Miguel Electric Plant
City:	Christine	County:	Atascosa
Project Reviewer:	Mr. Joseph Musa	Portfolio Number:	P1625

DISCRETE EMISSION CREDIT USE TECHNICAL REVIEW

Project Overview

San Miguel Electric Cooperative, Inc. (San Miguel Electric), submitted a Form DEC-3 (Notice of Use of Discrete Emission Credits) received January 29, 2013 for the use of nitrogen oxides (NO_X) Discrete Emission Reduction Credits (DERC) in complying with the requirements of 30 Texas Administrative Code (TAC) §117.3010(1)(A)(ii) on a utility electric power coal-fired boiler with a Facility Identification Number 6. The use period is January 1, 2012 through December 31, 2012.

San Miguel Electric reported the use of 268.4 tons (including the 10% environmental contribution) of NO_x credits to cover excess emissions from the boiler. This value was revised by the project reviewer to 268.2 tons because the reported emission rate was overestimated.

The corresponding intent to use project is 406729. The intent project set aside a total of 530.3 tons from certificates D-2419, D-2450, D-2913, and D-2924. Since 268.2 tons were actually used, certificate D-2981 will be issued to San Miguel Electric for 52.7 tons of NO_x retained from certificate D-2924. The 209.4 tons of NO_x set aside from certificate D-2913 are released and available for future use. Certificate D-2924 will be cancelled and certificates D-2419 and D-2450 retired.

Discrete Emission Credit Use

Boiler 6, rated at 4,972.5 million British thermal units per hour (MMBtu/hr), is subject to the emission specification for attainment demonstration (ESAD) listed in \$117.3010(1)(A)(ii). The ESAD emission rate for the boiler is 0.165 pounds of NO_x per million British thermal units (lb/MMBtu), while its actual annual average emission rate is 0.17905 lb/MMBtu. The average emission rate was based on the emissions and heat input data recorded by a continuous emissions monitoring system (CEMS), as specified in \$117.3035(d). Since the average emission rate exceeded the ESAD value, San Miguel Electric used DERCs to cover the excess emissions.

Certificates used	D-2419, D-2450, D-2924
Pollutant	
Amount	
Regulation	
Use Period	01/01/2012 - 12/21/2012

Discrete Emission Credit Use Calculation Method

The actual firing duty of the boiler was 4,566.23 MMBtu/hr. Since the unit was operated continuously for 316.583 days, the level of activity for the use period was 4,566.23 MMBtu/hr × 316.583 days × 24 hrs/day, or 34,694,179 MMBtu. (The value reported by the company, 34,694,195 MMBtu, was the heat input measured by the CEMS and was used in determining the amount of NO_x DERCs.). In calculating the amount of discrete emission credits (DEC) used, the company employed an outdated equation that appears to be equivalent to the equation in 30 TAC \$101.376(e)(2)(A), as amended. Per \$101.376(e)(2)(A):

DECs Used = $(ALA) \times (AER - RER)$

DISCRETE EMISSION CREDIT USE TECHNICAL REVIEW Page 2 Project Number: 407776

Where:

ALA = actual level of activity AER = actual emission rate per unit activity RER = regulatory emission rate per unit activity

DECs used = 34,694,195 MMBtu × (0.17905 lb/MMBtu - 0.165 lb/MMBtu) ÷ 2,000 lb/ton

DECs used = 243.73 tons; rounded up to the nearest tenth of a ton = 243.8 tons

10% environmental contribution = 24.38 tons; rounded up to the nearest tenth of a ton = 24.4 tons

Total DECs used = 243.8 tons + 24.4 tons = 268.2 tons

Conclusion

San Miguel Electric has a sufficient amount of DERCs to be in compliance with §117.3010(1)(A)(ii) during the use period of January 1, 2012 through December 31, 2012. New certificate D-2981 for 52.7 tons of NOx remaining from certificate D-2924 will be issued to San Miguel Electric for future use. The 209.4 tons of NOx set aside from certificate D-2913 are released and available for future use.

Mina Date count Manager

3/7/13

Peer Reviewer

Date

3

INTENT	INTENT	INTENT		INTENT	TOTAL	PERIOD	PERIOD END			USE	USE	LET
PROJECT	RECEIVED	CERTIFICATE	POLLUTANT	AMOUNT	AMOUNT	START DATE	DATE	USE PROJECT	USE RECEIVED	AMOUNT	CERTIFICATE	1º
300908	2/17/2005	D1156	NOX	756.6	3236.8	5/1/1905	12/31/1905	400452	1/19/2006	691.5	D2142	
400287	11/2/2005	D1243	ΝΟΧ	1037.6	2480.2	1/1/2006	12/31/2006	401339	1/26/2007	605	D2244	
401199			NOX	1037.6	1442.6	1/1/2007	12/31/2007	402254	1/25/2008	431	D2310	
402076	10/22/2007	D2143	NOX	65.1	65.1	1/1/2008	12/31/2008	403916	6/9/2009	65.1	D2143	
402076	10/22/2007	D2196	NOX	405	405	1/1/2008	12/31/2008	403916	6/9/2009	264.9	D2418	
402076	10/22/2007	D2245	NOX	291.2	432.6	1/1/2008	12/31/2008	403916	6/9/2009	0	0	
403106			NOX	480.8	606.6	1/1/2009	12/31/2009	406726	1/19/2010	201.8	D2876	
403106			NQX	141.4	141.4	1/1/2009	12/31/2009	406726	1/19/2010	141.4	D2312	\square
	10/20/2009		NOX	530.2	3195.4	1/1/2010	12/31/2010	· 406728	1/13/2011	320.8	D2912	
406727	10/18/2010		NOX	125.8	125.8	1/1/2011	12/31/2011	406403	1/27/2012	125.8	D2338))
406727			NOX	140.8	291.2	1/1/2011	12/31/2011	406403	1/27/2012	140.8	D2931	
406727			NOX	279	279	1/1/2011	12/31/2011	406403	1/27/2012	279	D2877	,
406729			NOX	140.1	140.1	1/1/2012			1/29/2013	140.1	DZ419	NA
406729			NOX	30.4	2665.2	1/1/2012	12/31/2012	407776	1/29/2013	30,4	D2979	N/A
406729			NOX	209.4	209.4	1/1/2012	12/31/2012	407776	1/29/2013	0	NIA	D2913
406729			NOX	150.4	150.4	1/1/2012	12/31/2012	407776	1/29/2013	97.7	D2980	D2931
407396	11/6/2012	0	NOX	0	0							

Form	DEC-3	(Page	1)	

No() of Use of Discrete Emission Credit (Title 30 Texas Administrative Code § 101.370 - § 101.379) U07776

Received

JAN	29	2013

I. COMP	ANY IDENTIFYING INFO	RMATION		<u>A:</u>	r Quality Division				
A. Compa	ny Name: San Miguel Electri	c Cooperative, I	nc		I GUAILY LIVISIO				
Mailing	g Address: P.O. Box 280								
City: J	City: Jourdanton State: Texas Zip Code: 78026								
Telepho	one: 830-784-3411			Fax:	830-784-3250				
B. TCEQ	Customer Number (CN): CN	600132278			·				
	me: San Miguel Plant				·····				
Street A	Address (If no street address, g	give driving dire	ctions to site) 6	200 F.M. 33	387				
Nearest	City: Christine, Texas	Zip Co	ode: 78012	C	ounty: Atascosa				
D. TCEQ	Regulated Entity Number (RN	I): RN10022653	19		- <u>181 - 181 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 187 - 1</u>				
E. TCEQ	Air Account Number: (if appl	icable) AG-000	7-G 🛩		P1625				
F. Primary	/ SIC: 4911		Air	Permit Num	ber: 4180a				
п. тесн	NICAL CONTACT IDENT	IFYING INFO	RMATION						
A. Techni	cal Contact Name: (🛛 Mr.	☐ Mrs. □	Ms. 🗌 Dr.)	: Lane Will	iams				
Techni	cal Contact Title: Environme	ntal Engineer							
Mailin	g Address: P.O. Box 280				· · · · · · · · · · · · · · · · · · ·				
City:	Jourdanton		State: Texas		Zip Code: 78026				
Teleph	one: 830-784-3411 ext. 264	Fax: 830-78	4-3250	E-mail:	lwilliams@smeci.net				
ш. сом	PANY CONTACT IDENTI	YING INFOR	MATION						
A. Compa	ny Contact Name: (🛛 Mr	. 🗌 Mrs. 🗌	Ms. 🗌 Dr.) : L	ane William	15				
Compa	iny Contact Title: Environme	ental Engineer							
Mailin	g Address: P.O. Box 280								
City: J	lourdanton		State: Texas		Zip Code: 78026				
Teleph 264	one: 830-784-3411 ext.	Fax: 830-784-	-3250	E-mail: lv	williams@smeci.net				
IV. Mass	Emission Cap and Trade Pro	ogram (MECT)							
Is the DER	C use for compliance with 30	TAC Chapter 10)1, Subchapter H,	Division 3?	🗌 Yes 🛛 No				
Year DERG	C Generated: Yea	ar of use:	Ratio of DI	ERC to Allow	wance: to				
Note: If DE	ERC use is to comply with ME	CT then go to Se	ction X						
V. Use Pe	riod								
Use Start D	Date: 01 / 01 / 2012		Use End D	Date: <u>12/3</u>	1 / 2012				

TCEQ 10393 (Revised 12/07) Form DEC-3 and Instructions This form is for use by facilities subject to air quality permit requirements and may be revised periodically.

Form DEC-3 (Page 2) No() of Use of Discrete Emission Credits (Title 30 Texas Administrative Code § 101.370 - § 101.379)					
Applicable State and F	ederal requirements that the DERC	Cs will be used for compliance: <u>30 TAC 117</u>			
VII. Most Stringent F	mission Rate				
Describe basis for mos	t stringent allowable emission rate	:			
Permit :	RACT :	Other: SIP			
Notes: State Implemen	ntation Plan which limits NOx emis	ssions to 0.165 lb/mmBtu by May 1, 2005.			
VIII. PROTOCOL					
Protocol used to calcula Note: Attach the actual	ate DERC: calculations that were used to det	ermine the amounts of DERCs needed to this form			

Continue to Section VII (next page)

1



Form DEC-3 (Page 3) Notice of Use of Discrete Emission Credits (Title 30 Texas Administrative Code § 101.370 - § 101.379)

		an a			Calo	culation of DER	Cs	an a	
Emission Point No.	FIN	Air Contaminant	Actual Activity (units)	Actual Emissions Rate (units)	Actual Total Emissions (tons)	Regulated Activity (units)	Regulated Emissions Rate (units)	Regulated Total Emissions (tons)	DERCs Used (tons)
6	Stack	NOx	34,694,195 mmBtu/yr	0.179 05 Lb/mmBtu	3,106.0	34,694,195 mmBtu/yr	0.165 Lb/mmBtu	2862.3	244.0 243.8 (
					From CEMS				
								· _ · · · · · · · · · · · · · · · · · ·	
<u></u>									6
			-						
									243.8
	J							Total:	244.0



Form DEC-3 (Page 4) Notice of Use of Discrete Emission Credits (Title 30 Texas Administrative Code § 101.370 - § 101.379)

X. TOTAL DERCS REQUIRED FOR USE (round up to the nearest tenth of a ton)							
		243.8					
Tons of DERCs required (from Sect. VI.)	CO:	• · •	PM ₁₀ :	SO ₂ :	VOC:		
Offset Ratio (if required)	CO:	NO _X :	PM ₁₀ :	SO ₂ :	VOC:		
Environmental Contribution (+ 10%)	CO:	NO _X : <u>24.4</u>	PM10:	SO ₂ :	VOC:		
Total DERCs Used	CO:	268.2 NO _x : <u>268.4</u>	PM ₁₀ :	SO ₂ :	VOC:		
XI. DERC INFORMAT	ION						
Name of the DERC Genera DERC Generator Regulated Certificate number of the D Mote: The certificate num	l Entity Number:_ ERCs acquired or	AG-0007-G to be acquired:					
XII. CERTIFICATION	ender im die Prinseenen u						
	he use strategy cl ons. I further stat ay in violation of of the Texas Cor made false mate nal penalties. I he	, hereby certify aimed on this not e that to the best 30 TAC, Subchapt nmission on Envi rial statements or preby also waive th	, to the best of ice has met the re of my knowleds er H, Division 4, § ronmental Quality representations i	my knowledge and quirements of all ap ge and belief the in 101.370-101.379 or and that intentiona n this certification	belief, that this plicable state and formation in this any applicable air illy or knowingly is a CRIMINAL		
Signature: Title <u>Engineering Man</u>	7 <i>A. Ca</i>		_ Date: _/~_	24-13			

DERC CALCULATIONS ACTUAL USE IN 2012

San Miguel Electric Cooperative, Inc. NOx is being reduced permanently while attempting to make sufficient reductions to meet the Texas SIP limit of 0.165 lb/mmBtu.

For San Miguel SA < BA therefore:

(BA * BER) - (AA * AER) = DERC Actually Used

(0.165 lb/mmBtu * 34,694,195 mmBtu) – (0.17905 lb/mmBtu * 34,694,195 mmBtu)

5,724,542 lbs - 6,211,996 lbs = -487,454 lbs / 2000 = 244.0 tons actually used 243.73243.8

Where: Emission Reduction Baseline Activity Heat Input is based on the time periods of January 1 to December 31 2012 using the heat input from the CEMS of 4,566.23 mmBtu/hr. NOx baseline emission rate average is based on the time periods of January 1, 2010 to December 31, 2012 using the SIP limit of 0.165 lb/mmBtu.

BA = emission reduction baseline activity

 $BA = (316.583 \text{ days}) * (24 \text{ Hrs}) * (4,566.23 \text{ lb/mmBtu}) = (34,694,195 \text{ mmBtu}) determined}$ hr 34,694,179 by CEMS

BA = <u>34,694,195 mmBtu</u>

BER = emission reduction baseline emission rate

BER = 0.165 lb/mmBtu NOx

Where: Emission Reduction Actual Activity Heat Input average for the time periods of January 1, 201¹/₂ to December 31, 201¹/₂ from CEMS

AA = emission reduction actual activity

AA = <u>34,694,195 mmBtu</u>

AER = emission reduction actual emission rate

AER = 0.179 lb/mmBtu NOx

\bigcirc Jourdanton, Texas 78026 \bigcirc



SAN MIGUEL ELECTRIC COOPERATIVE, INC.

January 18, 2013

Mr. Joseph Musa Texas Commission on Environmental Quality Air Quality Division (MC-206) P.O. Box 13087 Austin, Texas 78711

Subject: Notice of Actual Use of Discrete Emission Reduction Credits for 2012

Dear Mr. Musa,

Attached, please find a copy of the Form DEC-3 Notice of Use of Discrete Emission Reduction Credits with calculations included

Sincerely,

Ind. W/

Lane A. Williams Environmental Engineer



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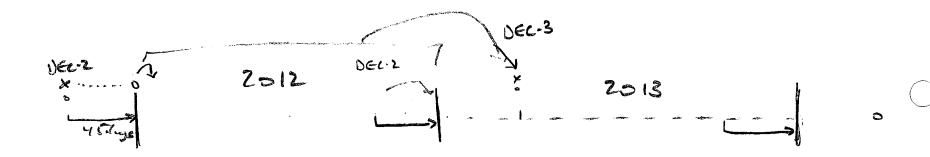
RECEIVED 1 JAN 292013 TCEQ MAIL CENTER MM



San Miguel Electric Coop., Inc. P.O. Box 280 Jourdanton, TX 78026

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Mr. Joe Musa TCEQ Emission Banking & Trading Program (mc206) P O Box 13087 Austin TX 78711



Bryan W. Shaw, Ph.D., Chairman Carlos Rubinstein, Commissioner Toby Baker, Commissioner Zak Covar, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 19, 2013

Mr. Lane A. Williams Environmental Engineer San Miguel Electric Cooperative, Inc. PO Box 280 Jourdanton, Texas 78026

Re: Use of Discrete Emission Credits (DEC) San Miguel Electric Plant Christine, Atascosa County Regulated Entity Reference Number: RN100226539 Customer Reference Number: CN600132278 Portfolio Number: P1625

Dear Mr. Williams:

This letter is in response to San Miguel Electric Cooperative, Inc.'s Form DEC-3 (Notice of Use of Discrete Emission Credits) received January 29, 2013 regarding the use of nitrogen oxides (NO_X) DECs for the purpose of compliance with 30 Texas Administrative Code (TAC) \$117.3010(1)(A)(ii) for the period of January 1, 2012 through December 31, 2012.

Upon review of the form and supporting documentation, we have determined that the use of 268.2 tons (including the 10% environmental contribution) of NO_x credits meets the requirements of 30 TAC 101.376 for compliance with 17.3010(1)(A)(i). The reported value of 268.4 tons overestimates the actual emission rate and has been revised.

The DECs have been used from certificates D-2419, D-2450, and D-2924, which are now cancelled. New certificate D-2981 for 52.7 tons of NO_X retained from certificate D-2924 will be issued to San Miguel Electric Cooperative, Inc., for future use. The 209.4 tons of NO_X set aside from certificate D-2913 are released and available for future use.

Enclosed is a copy of certificate D-2981 in the amount of 52.7 of NO_x DECs. Certificates D-2913 and D-2981 have been returned to or deposited in the Texas Commission on Environmental Quality (TCEQ) Discrete Emission Credit Registry. The certificates may be transferred or sold to another owner for use per the requirements of §§101.370 through 101.379.

Thank you for your cooperation in this matter. If you have questions concerning this review or need further assistance regarding the banking program, please contact Mr. Joseph Musa at (512) 239-3328 or write to the Texas Commission on Environmental Quality, Office of Air, Air Quality Division (MC-206), PO Box 13087, Austin, Texas 78711-3087.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • www.tceq.texas.gov

Mr. Lane A. Williams Page 2 March 19, 2013

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

David Bym

David Brymer, Director Air Quality Division

DB/JM/db

cc: Air Section Manager, Region 13 – San Antonio

Project Number: 407776

Banking and Trading Route Slip

Emission	AIR QUALITY D Banking and Tradi	IVISION ng Program (EBTP)		
Company Name: San Miguel	Electric Coope	rative, Inc.		(1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)
Project Number: 407776		- · · · · · · · · · · · · · · · · · · ·		
Type of Letter Correspondence: $\mathcal{D}($	TR, DCUS, DC	CT		
Letter Document Number(s): 203	56, 20357, 2	0359	- 1.	
Certificate Number(s): D-2419, D)-2450, D-291	3, D-2924, D-298	81	<u></u>
Review and Approval	Initial and Date		pecial Instructions	
Brandon Greulich, Work Lead EBTP	66-3/10/13	Just the date	Thank your	Jaseph!
Author/Creator Review	JM 3/7/13			
Peer Review Completed	B 316/13			
Author/Creator	JM 3 5 13		Mailed	Date 3 18 13 Date
<u></u>			JM	3/19/13

Please return Routing Slip and Project Paperwork to Brandon Greulich, MC-206, Ext. 4904

C.3/19